

EXHIBIT 2

Curriculum Vitae

David Samuel Markenson, MD, MBA, FAAP, FACEP, FCCM, FACHE
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PROFILE:

Health care physician executive with 15-plus years' experience in leadership roles (Division Vice President, Chief Medical Officer, Vice President, Medical Director, Section Chief, Academic Chairman, Center Director and Designated Institutional Official) with a publicly traded national hospital corporation, large regional health system, academic medical center, medical school, municipal hospitals and community hospital.

- Chosen to lead organizations, departments and programs during startup phase to build enterprises that achieved clinical excellence, operational efficiency, sustained growth and financial success.
- Requested to assume oversight of programs, services and departments facing critical challenges, based on expertise in assessing structure and operations, developing multi-faceted strategic and operational plans, and building, recruiting and engaging teams to reach goals.
- A highly regarded healthcare leader, clinician, educator and advisor, approachable and collaborative, respected by healthcare leaders, medical staff, nursing staff and facility staff.
- Served as first CMO of complex community tertiary care facility during rapid growth phase where improved quality and led innovation in clinical care delivery, achieving top hospital status and straight Leap Frog A grade. In subsequent role oversaw three divisions encompassing 7 states and over 30 hospitals with transformation of hospitals to academic medical center to establish over 200 residency positions and 15 programs that supported workforce needs, strategic growth plans, hospital quality, efficiency and finances.
- Strong leadership, interpersonal and communication skills, strategic thinker with ability to implement, analytical, persuasive, guided by data, outcome metrics and scientific evidence (EBM), driven to results. Successful in leading clinicians to embrace change through subject matter expertise, ability to present data, operational plans and finances clearly, and skill in engaging support from physician decision makers, thought leaders and champions.

Employment History and Primary Positions/Appointments

American Red Cross, Washington, DC
Chief Medical Officer, Training Services February 2019 to present
National Chair, Scientific Advisory Council 2005 to present
Member, Advisory Council of First Aid and Safety 2002- present

New York Medical College School of Health Sciences and Practice (formerly School of Public Health)
Medical Director, Center for Disaster Medicine 2013 to present
Director, Center for Disaster Medicine August 2005 to 2013
Interim Chair, Department of Epidemiology and Community Health (Epidemiology and Biostatistics merged with Behavioral Science and Health Promotion) June 2009 to 2010
Interim Chair, Department of Epidemiology and Biostatistics August 2008 to June 2009

Hospital Corporation of America Physician Services Group, Nashville, TN
Division Vice President for Graduate Medical Education for the Continental, Mountain and Mid-America Divisions, September 2016 to May 2018
Designated Institutional Official HealthONE, Research Medical Center, Ogden Regional Medical Center and Eastern Idaho Regional Medical Center (each entity is a separate ACGME Institutional Sponsor), July 2015 to May 2018
Chair, Institutional Review Board, HealthONE, January 2016 to May 2018

D. Markenson, MD, CV, Continued

Hospital Corporation of America
Sky Ridge Medical Center, Lone Tree, CO
Chief Medical Officer, May 2013 to August 2016
SRMC PHO Facility Lead and Board Member, May 2013 to December 2015

International Federation of Red Cross and Red Crescent Societies
Chair and Co-Founder, First Aid and Health Evidence Based Network, 2011 to Present
Co-Editor-in-Chief, 2021, 2016 and 2011 IFRC First Aid and Resuscitation Guidelines

Westchester Medical Center and Maria Fareri Children's Hospital, Valhalla, N.Y.
Director Partnership for Patients, Clinical Informatics, and Quality Data, June 2012 to May 2013
Medical Director Regional Emergency Services and Disaster Medicine (VP title and authority but titled Medical Director for physician), December 2009 to May 2013
Chief, Pediatric Emergency Medicine August 2005 to December 2009
Attending, Pediatric Emergency Medicine August 2005 to 2010
Attending, Pediatric Critical Care September 2005 to May 2013

Jamaica Hospital Medical Center and Flushing Hospital Medical Center, New York, N.Y.
Director Pediatric Critical Care 2005 to 2010
Director Child Protection 2005 to 2006

Columbia University, Mailman School of Public Health, New York, N.Y.
Director Program for Pediatric Preparedness May 2003 to May 2005
Deputy Director National Center for Disaster Preparedness May 2003 to May 2005

Children's Hospital at Montefiore
Medical Director, The Program for Pediatric Preparedness October 2002 to April 2004
Fellow, Pediatric Critical Care October 2002 to April 2004

Harlem Hospital Center, New York, N.Y.
Director of Pediatric Critical Care and Child Protection May 2001 to November 2002
Director Family Support Program and Child Protection May 2001 to November 2002
Assistant Attending Pediatric Emergency and Critical Care October 2000 to June 2004

New York Presbyterian Hospital, New York, N.Y.
Clinical Fellow in Pediatric Critical Care January 2000 to May 2001

NYU Medical Center Tisch Hospital and Bellevue Hospital Center, New York, N.Y.
Medical Director National Child Protection Project July 1996-June 2004
Member, Center for Pediatric Emergency Medicine, July 1995-June 2004
Fellow Pediatric Emergency Medicine, July 1998 to December 1999
Chief Resident July 1997 to June 1998
House Officer July 1994 to June 1997

Academic Appointments and Positions

University of Colorado School of Medicine
Clinical Professor of Pediatrics March 2015 to present

University of Colorado School of Public Health
Adjunct Professor of Public Health November 2014 to present

New York Medical College School of Medicine
Professor of Pediatrics, 2009-2013
Associate Professor of Pediatrics, 2006-2009
Assistant Professor of Pediatrics, 2005-2006

D. Markenson, MD, CV, Continued

New York Medical College School of Health Sciences and Practice (formerly School of Public Health)
Senior Fellow, Center for Disaster Medicine, 2013-2018
Professor of Clinical Public Health 2010 to 2013
Associate Professor of Public Health 2006 to 2009
Assistant Professor of Public Health 2005 to 2006
Director, Center for Disaster Medicine August 2005 to 2013
Interim Chair, Department of Epidemiology and Community Health (Epidemiology and Biostatistics merged with Behavioral Science and Health Promotion) June 2009 to 2010
Interim Chair, Department of Epidemiology and Biostatistics August 2008 to June 2009
Program Director, Emergency Preparedness MPH and Certificate Program, Department of Health Policy and Management March 2006 to 2009

Columbia University, Mailman School of Public Health, New York, N.Y.
Adjunct Assistant Professor of Population and Family Health January 2005 to 2007
Director Program for Pediatric Preparedness May 2003 to May 2005
Deputy Director National Center for Disaster Preparedness May 2003 to May 2005
Assistant Professor of Population and Family Health, 2003-2005

Columbia University College of Physicians and Surgeons, New York, NY
Assistant Professor of Pediatrics May 2001 to June 2005

New York University School of Medicine, New York, N.Y.
Instructor of Pediatrics July 1997 to June 2001
Teaching Assistant in Pediatrics July 1996 to June 1997

Education:

University of Massachusetts Isenberg School of Management, Amherst, M.B.A.
Master of Business Administration, May 2011

Albert Einstein College of Medicine, Bronx, N.Y.
Doctor of Medicine June, 1994
Honors Distinction in Pediatric Emergency Medicine Research

Union College, Schenectady, N.Y.
Bachelor of Arts June, 1990

Internship and Residency

New York University School of Medicine, New York, N.Y.
Primary Care Pediatrics Intern July 1994 to June 1995

New York University School of Medicine, New York, N.Y.
Primary Care Pediatrics Resident July 1995 to June 1997

New York University School of Medicine, New York, N.Y.
Pediatric Chief Resident July 1997 to June 1998

Fellowship

Bellevue Hospital, New York University School of Medicine, New York, N.Y.
Fellow in Pediatric Emergency Medicine July 1998 to December 1999

Cornell Medical College, New York Presbyterian Hospital, New York, NY
Fellow in Pediatric Critical Care January 2000 to May 2001

D. Markenson, MD, CV, Continued

Children's Hospital at Montefiore, Albert Einstein College of Medicine, New York, NY
Fellow in Pediatric Critical Care October 2002 to April 2004

Board Certification

American Board of Pediatrics – Pediatrics Certified October 1998, MOC Current

American Board of Pediatrics – Pediatric Critical Care Certified November 2004, MOC Current

American Board of Preventative Medicine – Clinical Informatics Certified 2014, MOC Current

American Board of Emergency Medicine – Emergency Medical Services Certified 2014, MOC Current

Professional Licenses:

Alaska Division of Corporations, Business, and Professional Licensing Physician #142262

Colorado Division of Professional Licenses DR.0052535

Nebraska Department of Health and Human Services Physician #31320

New York State Department of Education License to Practice Medicine and Surgery #199931

Ohio State Medical Board Physician #35.135973

Additional Hospital/Professional Appointments and Per Diem/Locums Roles

Kendal Regional Medical Center

Pediatric Critical Care Attending November 2018 to December 2018

Mountainland Pediatrics, Thornton, CO

Pediatric Attending July 2018 to August 2018

International Children's Hart Foundation, Nashville, TN

Volunteer Pediatric Critical Care Attending July 2018 to present

Sky Ridge Medical Center (Carepoint, PC), Lone Tree, CO

Pediatric Emergency Physician July 2013 to February 2014

Swedish Medical Center (Carepoint, PC), Englewood, CO

Pediatric Emergency Physician July 2013 to February 2014

Presbyterian Medical Center and Rocky Mountain Hospital for Children (Carepoint, PC), Denver, CO

Pediatric Emergency Physician July 2013 to February 2014

PM Pediatrics, Mamaroneck, NY

Per Diem Pediatric Emergency Medicine Attending December 2010 to April 2013

White Plains Hospital, White Plains, NY

Emergency and Pediatric Emergency Attending October 2004 to 2006

St. Luke's Roosevelt Hospital, New York, N.Y.

Attending Pediatric Critical Care August 2004 to December 2006

Attending Pediatric Emergency Medicine January 2000 to December 2002

D. Markenson, MD, CV, Continued

Beth Israel Medical Center, New York, N.Y.

Pediatric Critical Care Attending Physician August 2004 to December 2006.

Pediatric Emergency Attending Physician June 1997 to January 2001

Hospital for Joint Diseases, New York, N.Y.

Pediatric Attending Physician June 1996 to January 2003

Lenox Hill Hospital, New York, N.Y.

Pediatric Emergency Room Physician November 1995 to December 1998

Professional Certification

American College of Healthcare Executives – Fellow

Certified Professional in Healthcare Quality (CPHQ)

Certifying Commission on Medical Management – Certified Physician Executive

Six Sigma Certified Black Belt

Professional Membership:

American Academy of Pediatrics - Fellow

American College of Critical Care Medicine - Fellow

American College of Emergency Physicians - Fellow

American College of Health Care Executives - Fellow

American College of Physician Executives - Member

American Medical Informatics Association - Member

Arapahoe Douglass Ebert Medical Society – Past-President and Member

Colorado Medical Society – President-Elect, and Board of Directors and Member

New York Academy of Medicine – Fellow

Society of Critical Care Medicine – Member

Hospital Committee Membership

HealthONE

Division Formulary Steering Committee – Member 2015-2018

Sky Ridge Medical Center

Performance Improvement Committee – Ex-officio member 2013-2016

Peer Review Committee - Ex-officio member 2013-2016

Credential Committee - Ex-officio member 2013-2016

Medical Executive Committee - Ex-officio member 2013-2016

Pharmaceutical and Therapeutics Committee – Member 2013-2016

Critical Care Committee - Ex-officio member 2013-2016

Pediatric Service Line – Member 2013-2016

Emergency Service Line – Member 2013-2016

Trauma Committee – Member 2013-2016

Physician Satisfaction Team – Member 2013-2016

Westchester Medical Center

Child Protection Committee – Member 2005 to 2011

Disaster Committee – Chair 2008 and member 2006 to 2013

Environment of Care Committee – Chair 2011 to 2013, member 2009 to 2013

Medical Operations – Member 2009 to 2013

Pediatric Education Committee – Member 2006 to 2013

Pediatric Medical Operation Committee – Member 2005 to 2013

Pharmacy and Therapeutics Committee – Member 2006 to 2013

D. Markenson, MD, CV, Continued

Trauma Committee – Member 2005-2013
Trauma Peer and M&M – Member 2005-2013
Pediatric Trauma Committee – 2008-2013
Utilization Management – Member 2011 to 2013

Flushing Hospital Medical Center
Critical Care Committee – Member 2004 to 2010
Child Protection Committee – Member 2004 to 2010, Chair 2004 to 2006
Pediatric QA Committee – Member 2004 to 2010

Jamaica Hospital Medical Center
Critical Care Committee – Member 2005 to 2010
Child Protection Committee – Member 2005 to 2010; Chair 2005 to 2006
Pediatric QA Committee – Member 2005 to 2010
Trauma Committee – Member 2005-2010

Harlem Hospital Medical Center
Child Protection Committee – Chair January 2001 to November 2002
Critical Care Committee – Member May 2001 to November 2002
Trauma Committee – Member 2001-2002

Bellevue Hospital Medical Center
Medical Board – Member and Executive Committee Member 1996 to 2000
Formulary Sub-Committee – Member 1997 to 2000
House Staff Affairs Sub-Committee – Member 1997 to 2000

CME Instructor Certifications:

American Academy of Pediatrics
Neonatal Resuscitation Program Regional Trainer, 1998 to 2005
Neonatal Resuscitation Program Instructor, 1992 to 2005

American College of Surgeons
ATLS Provider, 1994-2010
ATLS Instructor, 2001-2004

American Heart Association
Advanced Cardiac Life Support Instructor, 1991 to 2003
Pediatric Advanced Life Support Instructor, 1993 to 2003
Pediatric Advanced Life Support Affiliate Faculty, 1994 to 2003

American Medical Association
National Disaster Life Support Instructor, 2009 to present

American Red Cross
Volunteer Health and Safety Specialist, 1990 to present
Basic Disaster Services Instructor, 1990 to present
Instructor Trainer in HIV/AIDS Education, 1990 to present
Instructor Trainer in Water Safety and Lifeguard Training, 1989 to present
Instructor Trainer in First Aid, 1989 to present
Instructor Trained in CPR, 1988 to present

National Association of E.M.T.s
Pre-Hospital Trauma Life Support Instructor, 1991 to 2000
Pediatric Prehospital Care National Medical Director, 1998 to 2000

D. Markenson, MD, CV, Continued

New York State Department of Health

*EMS Hazardous Materials Awareness Instructor, 1993 to 2000
Paramedic Instructor, 1992 to 2000
Pre-Hospital Pediatric Care Course Instructor, 1992 to 2000
Ambulance Accident Prevention Seminar Instructor, 1991-1997
Emergency Medical Technician Instructor, 1989 to 2000*

Society of Critical Care Medicine

*Pediatric Fundamental Critical Care Support Course Instructor, 2010 to 2014
Fundamental Critical Care Support Instructor, 2002 to 2014
Fundamental Disaster Medicine Instructor, 2003 to 2014*

TEEX DHS Programs

*Medical Management Of CBRNE Events (PER 211), Chair Medical Advisory Board 2004-2015, Instructor 2003 to 2016
Pediatric Disaster Response And Emergency Preparedness (MGT439), Chair Medical Advisory Board, Development Team and instructor 2011-2016*

D. Markenson, MD, CV, Continued

Research and Grant Activities:

Community Based Care Center Model Plan and Toolkit Education April 2011 to August 2011

Principal Investigator

Awarded \$35,000 sub-award from NYS DOH Hospital Emergency Preparedness Program Grant Having been selected by New York State Department of Health to develop model for Community Based Care Center (original name-alternate care sites) and an accompanying toolkit for implementation to address patient surge for pandemic influenza, mass casualty events and other disasters, awarded additional funding for implementation and education. Conducted statewide education on use of toolkit.

Dutchess County Surge Planning April 2010 to September 2010

Principal Investigator

Awarded \$35,000 grant from Dutchess County Department of Health Conceptualized and directed grant which facilitated the Dutchess Department of Health and Office of Emergency Management in development of a county wide surge plan based on our prior validated models. In addition developed standards for alternate care sites including triage and care protocols.

Regional Resource Center August 2009 to 2013

Principal Investigator

Awarded \$275,000 2011-12 (325,000 prior years) per year from NYS DOH Hospital Emergency Preparedness Program Grant provided to operate Regional Resource which provides training, drills support and research of preparedness in the Hudson Valley Region

Alternate Care Site Model Plan and Toolkit April 2009 to 2010

Principal Investigator

Awarded \$95,000 sub-award from NYS DOH Hospital Emergency Preparedness Program Grant Selected by New York State Department of Health to develop model for alternate care sites and an accompanying toolkit for implementation of alternate care sites to address patient surge in the event of pandemic influenza, mass casualty events and other disasters. Once developed this model and toolkit is to become the NYS standard and will be required to be used by all local health departments in NYS.

Emergency Departments Appropriate for Pediatrics May 2008 to 2010

Principal Investigator

Awarded \$100,000 initial grant and \$90,000 second year grant from R Baby Foundation Conceptualized and directed grant to assess community emergency departments for their ability to care for infants and young children. Then based on the assessment and review of the evidence based literature, develop guidelines and an educational program to create emergency departments appropriate for infants and young children which will be piloted in the Hudson Valley and then distributed nationally.

Hudson Valley Regional Emergency Preparedness Training and Exercise December 2008 to 2009

Principal Investigator

Awarded \$55,000 sub-award from NYS DOH Hospital Emergency Preparedness Program Grant Developed program to assess education gap in emergency preparedness knowledge in the Hudson Valley and then to design and deliver educational program to fill this gap. Program will also develop, conduct and evaluate drills and exercises to test the impact of this education.

Broome County Child Protection and Epidemiological Support August 2008 to 2010

Principal Investigator

Awarded \$50,000 per year contract which has been renewed for an additional year Oversaw grant to provide epidemiological and biostatistics support to the Broome County Department of Health. In addition provided direction on the expansion of health department child protection activities including the child fatality review team, case review and multi-disciplinary team creation and protocols. Also developed with health department official's research study regarding child maltreatment prevalence in Broome County.

D. Markenson, MD, CV, Continued

Alternate Care Site Planning Grant February 2008 to June 2008

Principal Investigator

Awarded \$180,000 grant from NYS Department of Health Hospital Emergency Preparedness Program Conceptualized and directed grant which assessed issues regarding patient triage and care at alternate care sites for disaster medical services. In addition developed standards for alternate care sites including triage mechanisms and care protocols.

Hudson Valley Region Surge Assessment May 2007 – September 2007

Principal Investigator

Awarded \$50,000 contract through Regional Resource Center from NYS Department of Health Conceptualized and directed grant to assess the surge capacity of EMS, hospitals and community health assets in the Hudson valley region.

Putnam Community Wide Preparedness Project October 2006- September 2007

Principal Investigator

Awarded \$125,000 for one year grant from NYS Department of Health Conceptualized project, developed grant and direction project to conduct community based preparedness project targeted and schools with inclusion of public health, EMS, fire, law enforcement and emergency management.

Lifeguarding and Resuscitation Evidence Based Guidelines June 2006 to June 2009

Principal Investigator

Awarded \$150,000 for 2 year grant from the National Pool and Spa Foundation Developed project, process and chaired program to develop evidence based approaches and guidelines for drowning prevention, water rescue and the drowning process resuscitation.

Prehospital Provider Recognition of Child Neglect 2005 to 2006

Principal Investigator

Research project funded through departmental funds Developed and conducted both pilot and formal research project to assess Prehospital provider's ability to recognize, assess, document and report child neglect. Submitted several applications for funding for this research. At this time this research is funded through NYMC Public Health Departmental funds.

Consensus Conference on the Needs of Children and Persons with Disabilities in Disasters September 2003 to 2007

Principal Investigator

Awarded \$380,000 for 2 year grant from Agency for Healthcare Research and Quality Conceptualized project and drafted grant application for grant to hold a repeat National Consensus Conference on the needs of children in disasters with a new added focus on person with disabilities and to establish a research agenda to answer the questions regarding the needs of children and person with disabilities in disasters.

Center for Public Health Preparedness September 2004 to 2006

Co-Investigator May 2005 to 2006 (involvement ended with my departure from Columbia University)

Co- Principal Investigator September 2004 to May 2005

Awarded \$5,500,000 for 5 year grant from the Centers for Disease Control

Co-Principal investigator on grant to continue the work of a Center for Public Health Preparedness at a School of Public Health to support the activities of the departments of health and improve preparedness through research and education on public health preparedness.

Academic Departments of Public Health February 2004 to January 2005

Principal Investigator

Awarded \$100,000 for 1 year grant from the Association of Schools Public Health/Centers for Disease Control

Conceptualized project and drafted grant application for ASPH/CDC grant to develop the models for departments of health to become more academic. Grant involves active collaboration with the New York

D. Markenson, MD, CV, Continued

City Department of Health and Mental Hygiene to test these models for improved academic activity and then to disseminate finds as a replicable model.

Bioterrorism Curriculum Enhancement October 2003 to June 2005

Principal Investigator (grant period)

Co-Investigator (grant extension)

Awarded \$780,000 for 2 year grant from the Health Resources Services Administration

Helped to conceptualize and draft application for HRSA grant to enhance the curriculum of all the schools of the Columbia University Health Science Campus to include bioterrorism and emergency preparedness. After awarding of grant served as co-principal investigator and directed grant including supervision of all staff, oversight of all activities and product creation.

Centers for Disease Control Linkages of EMS and Acute Care with Public Health Departments October 2003 to 2007

Principal Investigator

Initially Awarded \$100,000 for 1 year grant from the Centers for Disease Control.

Awarded Additional \$225,000 for 3 year grant from the Center for Disease Control

Conceptualized project and drafted grant application for CDC grant to foster linkages between EMS and State and Local Departments of Health involving disaster and terrorism preparedness. In addition project included assessment of EMS provider's knowledge of bioterrorism, equipment for terrorism and knowledge and attitudes regarding EMS and public health.

Consensus Conference on the Needs of Children in Disasters November 2002 to October 2003

Principal Investigator

Awarded \$50,000 for 1 year grant from Agency for Healthcare Research and Quality

Conceptualized project and drafted grant application for grant to hold a National Consensus Conference on the needs of children in disasters and to establish a research agenda to answer the questions regarding the needs of children in disasters.

Center for Public Health Preparedness September 2000 to August 2004

Co- Investigator May 2003 – August 2004

Awarded \$4,000,000 for 4 year grant from the Associations of Schools of Public Health

Senior investigator on grant to establish a Center for Public Health Preparedness at a School of Public Health to support the activities of the departments of health and improve preparedness through research and education on public health preparedness.

Maternal and Child Health Bureau EMS for Children Model Pediatric Component for State Disaster Plans
March 2001 to February 2004

Principal Investigator

Awarded \$600,000 for 3 year grant from Maternal Child Health Bureau.

Conceptualized project and drafted grant application for EMSC Targeted Issues Grant to evaluate the needs of children in disaster planning, preparation and response, build collaboration between pediatric experts and emergency management professionals and based on data driven consensus process develop a model pediatric component for state disaster plans.

Renal Function in Older Children and Adolescents with Perinatal HIV-1 Infection May 2001 to April 2003

Principal Investigator

Funded by Family Care Center and Glaxo Smith Kline

Conceptualized project and drafted IRB application for study to evaluate previously undetected renal impairment in older children and adolescents with perinatal HIV-1 infection.

Levalbuterol versus Albuterol for Continuous Nebulization May 2001 to April 2003

Principal Investigator

Research project funded through departmental funds

Conceptualized project and drafted IRB application for study to evaluate the difference in efficacy, pharmakinetics and adverse effects for levalbuterol versus albuterol as a continuous nebulization.

D. Markenson, MD, CV, Continued

Renal Clearance and Adverse Reactions for Sedative Medication in Children May 2001 to April 2003

Principal Investigator

Research project funded through departmental funds

Conceptualized project to study the difference in efficacy, pharmakinetics, protein binding, renal clearance and adverse effects for the commonly used sedative in children.

National Children's Alliance January 2002 to December 2004

Principal Investigator

Awarded \$50,000 grant from National Children's Alliance and Department of Juvenile Justice

Drafted grant and administer grant to enhance child protection group into fully accredited Child Advocacy Center.

Maternal and Child Health Bureau EMS For Children Network Development Demonstration Project (NDDP) September 2001- June 2003

Co-Investigator

Awarded Grant \$500,000 from Health Resources and Services Administration

Co-authored grant application and conceptualization of project. Will serve in project management and oversight of a project designed to demonstrate the value of establishing an infrastructure or network that can serve as a platform from which to conduct investigations on the effectiveness of treatments, transport, and care responses, including those preceding the arrival of children to hospital emergency departments.

Maternal and Child Health Bureau EMS For Children Target Issues Grant National Child Protection Project August 1999- July 2003

Project Medical Director

Awarded \$350,000 Grant from Health and Resources Services Administration

Designed and conducted pilot study of EMS provider's knowledge and attitudes regarding child abuse and neglect recognition and reporting. Directed the administration of the federal grant to further this study on a national level, designed and analyzed research project and then design an educational resource to help better educate prehospital personnel on this subject.

On-Scene Administration of Albuterol by EMT-Basic for Bronchospasm August 1998 to June 2003

Principal Investigator

Research project funded through departmental funds

Designed and conducted study to determine the ability of EMT-Basic to correctly assess patient's for bronchospasm and then to provide therapy with albuterol via a nebulizer system. Study was approved by the NYS Commissioner of Health for deviation in standard of care as part of this study. Study involved 20 EMS agencies treating patients in the 5 boroughs of New York City.

Nebulized Epinephrine versus Albuterol for treatment of Bronchiolitis January 1998 to December 2000

Principal Investigator

Designed and conducted double blind study to compare the efficacy and patient outcome of epinephrine versus albuterol for the treatment of bronchospasm secondary to bronchiolitis.

Maternal and Child Health Bureau EMS for Children Grant November, 1998 to October 2001

Educational Coordinator, Investigator and editor for three year federal grant to develop an Instructor's

Awarded \$375,000 Grant from Health Resources and Services Administration

Resource for Teaching Prehospital Pediatrics for the EMT Intermediate and Paramedic and then studying the impact of this resource on prehospital provider education.

Prehospital Provider Knowledge and Attitudes Regarding Child Maltreatment and National Child Protection Project July 1996 – June 1998

Principal Investigator

Research project funded through departmental funds

D. Markenson, MD, CV, Continued

Designed and conducted a study of the knowledge and attitudes of EMTs and paramedics related to child maltreatment. In addition assessed their attitude and desire for additional education in child maltreatment.

Maternal and Child Health Bureau EMS for Children Grant November 1994 to October 1998
Educational Coordinator, Investigator and editor for three year federal grant to develop an Instructor's Awarded \$375,000 Grant from Health Resources and Services Administration Resource for Teaching Prehospital Pediatrics for the EMT Basic and then studying the impact of this resource on prehospital provider education.

Primary Care Access and Emergency Department Usage Study October 1994 to May 1998
*Principal Investigator
Research project funded through departmental funds
Designed and implemented study to analyze the effect of access to primary care, telephone triage and patient education on emergency department usage in a large urban hospital.*

EMT and Paramedic Diagnostic Accuracy February 1994 to January 1996
*Principal Investigator
Research project funded through departmental funds
Designed and conducted a study of the abilities of EMTs and paramedics to correctly diagnose patients.*

Pre-Hospital Pediatric Spinal Immobilization September 1993 to June 1997
*Principal Investigator
Research project funded through departmental funds
Designed and implemented a study to analyze patterns and effectiveness of spinal immobilization by Emergency Medical Technicians and Paramedics and on in hospital management are to be studied.*

New York City EMS Systems Study, September 1993 to September 1996
*Principal Investigator
Research project funded through departmental funds
Conducted a study using a mail survey of the different types of Emergency Medical Services Systems that exist in New York City.*

Pre-Hospital Medication Administration by Basic Emergency Medical Technicians March 1993 to June 2004
*Principal Investigator
Research project funded through departmental funds
Designed a three arm study looking at the ability of Basic Emergency Medical Technicians to administer medications in terms of the efficacy, safety and complications; obtained permission for deviation from the standards of provider care from the Regional and State Emergency Medical Advisory Board and the Commissioner of the Department of Health; developed and taught a training course for the EMT's in the study for a pilot study with Epinephrine and provisional approval for a full study with Albuterol..*

Effects of Alternative Staffing Patterns on ALS Protocols as Established by the Regional Medical Advisory Board of New York City January 1993 to January 1996
*Principal Investigator
Research project funded through departmental funds
Designed and organized a study to determine the effects of alternative staffing patterns on decision making, technical accuracy and efficiency in the prehospital advanced life support treatment.*

Maternal and Child Health Bureau EMS for Children Grant November 1992 to December, 1994
Educational Coordinator, Investigator and instructor for two year federal grant to develop and implement a curriculum to train paramedics how to assess, intubate and obtain intraosseous access in children.

Predictors of Sepsis in an Infant with a Fever Summer, 1991

D. Markenson, MD, CV, Continued

Participated in a study of patients under two months of age admitted to an urban hospital with a fever greater than 100.5 degrees Fahrenheit to determine the ability to use clinical appearance, white blood cell count, erythrocyte sedimentation rate, chest x-ray and urine dip stick as predictors of possible sepsis and to determine the need for hospitalization and antibiotic therapy.

Indirect Oxidative Mitogenesis of T-Lymphocytes Summer, 1985

Participated in a research group at the Weismann Institute of Science, Rehovot, Israel, studying the mechanisms of indirect oxidative mitogenesis of T-Lymphocytes.

Federal Research Loan Repayment Programs

Pediatric Research Loan Repayment Program

Recipient and Principal Investigator September 2003 to present

Awarded grant for loan repayment based on my activity in Pediatric Research in the areas of Emergency Preparedness, Critical Care, Child Abuse Pediatrics and Emergency Medicine.

Federal Grant Review Panels:

Agency for Healthcare Research and Quality, Department of Health and Human Services

Objective Review Panel for Emergency Preparedness Grants – January 2004

Maternal and Child Health Bureau, Department of Health and Human Services

Objective Review Panel for Targeted Issues Grants – December, 2001

Maternal and Child Health Bureau, Department of Health and Human Services

Objective Review Panel for Continuing Education and Development Grants – August, 1997

Federal Advisory Panels:

FEMA National Advisory Committee

Appointed to national advisory committee to the administrator of the Federal Emergency Management Agency representing In-patient Medical Providers, 2009-2012.

National Advisory Committee to the Secretary of Health and Human Services on Children and Terrorism

Selected by CDC to serve as advisor and helped with drafting of report of Advisory committee to the Secretary of Health and Human Services on defining the needs of children in terrorism preparedness, response and recovery and making recommendations for necessary changes, research and initiatives.

National Committee Membership:

Accreditation Council for Graduate Medical Education

CLER Evaluation Committee – Appointed to term beginning July 2018

American Academy of Pediatrics

Committee on Pediatric Emergency Medicine May 1995 to June 2004

American College of Emergency Physicians

Committee on Pediatric Emergency Medicine, January 2007 to 2010

Disaster Committee, January 2011 to present

American Heart Association and American Red Cross

First Aid Guidelines Task Force – Member 2010-2015

ECC International First Aid Science Advisory Board – Chair 2006 to 2010

ECC National First Aid Science Advisory Board – Chair February 2004 to 2005

D. Markenson, MD, CV, Continued

American Medical Association
NDLS Education Consortium Executive Committee 2011-2012

American Red Cross

*National Scientific Advisory Council (formerly National Advisory Committee on First Aid, Aquatics, Safety and Preparedness), Chair 2005 to present, Member 2002- present
HIV/AIDS National Faculty and Implementation Group, 1990
Volunteer Health and Safety Specialist, National, 1989 to 1997*

EMSC National Resource Center

*EMSC 2000 National Congress Planning Committee – Member 1998 to 2000
EMSC Public Information Task Force Committee – Member 1999 to 2002*

International Liaison Committee Resuscitation

*2015 COSTR Process – Member 2010-2015
First Aid Task Force – Member 2010-2015*

National Association of EMS Physicians

*Education Committee - Member 1991- 1995
Pediatric Committee - Chair 1997 to 2000 and Member since 1993
Research Committee - Member 1994 to 2000
Standards and Practice Committee - Member 1994 to 2000*

National Association of EMTs

Pediatric Prehospital Care Course Committee – Chair and National Medical Director 1998 to 2001

Society for Academic Emergency Medicine

Education Committee - Member 1996-1997

Society for Critical Care Medicine

*Fundamental Disaster Medicine Committee – Member 2005 to 2007
Job Description and Contracts in Critical Care Task Force – Member 2010 to 2013
MCCKAP Committee – Member 2006 to 2013
PFCCS Committee – Member 2011 to 2013, 2018 to present
Pediatrics Mock On-Line Learning Committee – Chair and Member 2011to 2014*

National and International Projects:

Institute of Medicine of the National Academies, Committee on the Treatment of Cardiac Arrest
Member 2013-2015

Served as a member of Institute of Medicine study group to evaluate treatment of cardiac arrest in US and develop report with analysis and recommendations..

International First Aid Consensus on Science and Treatment Recommendations and Guidelines
Member 2005- 2010 and 2010-2015

Served as member of the international evidence review of first aid treatment as part of the Emergency Cardiac Care and International Liaison Committee on Resuscitation 2010 and 2015 evidence review process. This international evidence review will lead to publication of updated and expanded Consensus on Science and Treatment Recommendations and First Aid Guidelines.

National First Aid Consensus on Science and Treatment Recommendations and Guidelines
Co-Chair February 2004- 2005

Served as Co-Chair for the first evidence review of first aid treatment as part of the Emergency Cardiac Care and International Liaison Committee on Resuscitation 2005 evidence review process. This international evidence review will lead to publication of the first Consensus on Science and Treatment Recommendations and National First Aid Guidelines.

D. Markenson, MD, CV, Continued

Pediatric Disaster and Terrorism Preparedness: A National Consensus Conference

Principal Investigator November 2002 to June 2003

Served as principal investigator to bring together a coalition of experts, professional organizations representing pediatrics, emergency medicine, emergency management, EMS and related health care professions and representatives of federal agencies involved in disaster and terrorism preparedness. Then to hold a consensus meeting with individuals from this coalition to develop guideline and recommendations for children in disaster and terrorism preparedness and to develop a future research agenda on this topic. Lastly to draft and publish an executive summary and final report of the meeting outcomes.

Model Pediatric EMS Protocols 2003 Revision Principal Investigator January 2003 to December 2003

Served as principal investigator for federally funded project to revise with the latest evidence a previously developed evidence based consensus process set of Model Pediatric Protocols for EMS Providers, EMS Educators and EMS Medical Directors. Conducted the data review, coordinated and directed consensus meeting and served as lead author for project.

Model Pediatric EMS Protocols Co-Principal Investigator June 1998 to August 1999

Served as principal investigator for federally funded project to develop an evidence based consensus process set of Model Pediatric Protocols for EMS Providers, EMS Educators and EMS Medical Directors. Conducted the data review, coordinated and directed consensus meeting and served as lead author for project.

EMS and Managed Care Federal Roundtable Participant January 1998 to December 2000

Invited to be participant in federal roundtable sponsored by the Department of Health and Human Services Maternal Child Health Bureau and the National Traffic Highway Safety Administration to identify issues of agreement and dispute between Emergency Medical Services and Managed care. Then to develop recommendations for future actions to be undertook by federal, state and local governments to improve EMS and managed care relationships.

Revision of the EMT-Intermediate and Paramedic: National Standard Curricula and Associated Refresher Courses Adjunct Author January 1995-December 1998

Selected as Adjunct Author of United States Department of Transportation and US Department of Health Maternal and Child Health Bureau project to revise the EMT-Intermediate and Paramedic: National Standard Curricula. Worked as author for pediatric section and as peer reviewer for entire project.

National Task Forces

EMS for Children Public Information and Education Project Task Force

Invited participant in a national task force conducted by both Maternal Child and Health Bureaus' EMS For Children Division and the National Highway Traffic Safety Administration to establish and oversee a federally funded national public information and education campaign.

Pediatric Education Task Force

Invited participant in a national task force conducted by both Maternal Child and Health Bureaus' EMS for Children Division and the National Highway Traffic Safety Administration to establish national guidelines for the training of paramedics in pediatrics.

State and Local Advisory Panels:

Colorado Governor's Expert Emergency Epidemic Response Committee (GEEERC)

Appointed to standing advisory group to the governor for preparation and during an emerging or ongoing public health threat representing pediatrics and hospital, 2014 to present.

D. Markenson, MD, CV, Continued

Bibliography

Editorial Positions

Disaster Medicine and Public Health Preparedness
Deputy Editor-in-Chief, August 2012 to present
Associate Editor, December 2006 to 2012

American Journal of Disaster Medicine
Editorial Board Member, November 2006 to 2014

Peer-Reviewed Journals Edited

Journal of Public Health Management and Practice. Guest Editor, Supplement on Bioterrorism and Public Health Preparedness Education. To be published, November 2005

Published Articles:

Tobin JM, Rossano JW, Wernicki PG, Fielding R, Quan L, Markenson D. Dry drowning: A distinction without a difference. *Resuscitation.* 118:e5-e6. September 2017

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Reilly, M.J. and Markenson, D. Hospital Referral Patterns: How Emergency Medical Care Is Accessed in a Disaster. *Disaster Medicine and Public Health Preparedness* 4(3): 226-31. Oct, 2010.

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Degnan, A., Thomas, G. and Markenson, D. How The NYC School System, Its Teachers, Leadership And Students Assured Health And Safety On 9/11. *Prehospital and Disaster Medicine* 20(2): Supplement, March/April 2005.

Madrid, P., Grant, R., Markenson D., et al. Helping Children in Disasters Through Alleviating their Parent's Anxiety: Psychosocial Group Interventions Post-Disaster. *Prehospital and Disaster Medicine* 20(2): Supplement, March/April 2005.

Markenson, D., Foltin, G., et al: Eyewitness to Child Abuse and Neglect. *Prehospital Emergency Care* 6(1): 166, January/March 2002.

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Markenson, D., Foltin G., Tunik M., Welborn C., Cooper A. and Treiber M.: Accuracy of Pediatric Assessment by EMT-Basics. *Archives of Pediatric and Adolescent Medicine* 149(4):89, April, 1995.

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Note: The above list is not inclusive of the publication of abstracts which were associated with oral and poster presentations and published in non peer-reviewed journals.

D. Markenson, MD, CV, Continued

Peer-Reviewed Reports Published:

Emergency Preparedness: Addressing the Needs of Persons with Disabilities. A National Consensus Conference. Markenson, D. and Redlener I. March 2007

Pediatric Emergency Preparedness for Natural Disasters, Terrorism and Public Health Emergencies: A National Consensus Conference. Executive Summary and Final Report. Markenson, D. and Redlener I. March 2007

Executive Summary and Final Report Uncommon Sense, Uncommon Courage: *How The New York City School System, Its Teachers, Leadership, And Students Responded To The Terror Of September 11.* Degnan, A., Thomas, G., Markenson, D., et al. National Center for Disaster Preparedness, October 2004.

InfoBrief: Pediatric Atropine Auto-Injector Usage. Markenson, D. National Center for Disaster Preparedness, June 2004.

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D. Markenson, MD, CV, Continued

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Books Edited:

Basic Disaster Life Support, Sweinton, R, Subaro, I. and Markenson, D. (Deputy Editor), American Medical Association. March 2012

Fundamental Disaster Medicine. Pediatric Editor, Society of Critical Care Medicine, 2004.

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Disaster Nursing and Emergency Preparedness, 3rd Edition. Hospital and Emergency Department Preparedness. Springer, United Kingdom, 2012.

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D. Markenson, MD, CV, Continued

National Presentations and Scientific Exhibitions

Oral Research Presentations:

Comfort of EMS providers in responding to WMD events: Impact of Training and Equipment.
International Conference on Healthcare System Preparedness and Response to Emergencies and Disasters, January 2012.

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Core Competencies for Emergency Preparedness Education for Health Profession Schools, World Association of Disaster Emergency Medicine, May 2011.

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Developing Pediatric Emergency Preparedness Performance Measures, World Association of Disaster Emergency Medicine, May 2011.

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Development of Model Medical Care Protocols for Alternate Care Sites during Pandemics and Public Health Emergencies, Asia-Pacific Conference on Disaster Medicine, August 2010

Developing Methodologies to Assess Resource Needs and Ability to Provide Interventions for Children in Disasters, Terrorism and Public Health Emergencies, Asia-Pacific Conference on Disaster Medicine, August 2010

Designing community-based alternate care sites for pandemics and public health emergencies, American Public Health Association, November 2009

Hospital emergency department referral patterns in a disaster, American Public Health Association, November 2009

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How The NYC School System, Its Teachers, Leadership And Students Assured Health And Safety On 9/11. Presented at the World Congress on Disaster Emergency Medicine, May 2005

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Helping Children in Disasters Through Alleviating their Parent's Anxiety: Psychosocial Group Interventions Post-Disaster. Presented at the World Congress on Disaster Emergency Medicine, May 2005

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Poster Research Presentations:

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Developing Methodologies to Assess Resource Needs and Ability to Provide Interventions and Care for Children in Disasters, Terrorism and Public Health Emergencies. World Association of Disaster Emergency Medicine, May 2011

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Emergency Preparedness Guidelines for Children. 5th European Congress on Emergency Medicine, September 2008.

Hospital workers: Who are essential personnel during a disaster? Presented at American Public Health Association Meeting, November 2007.

Designing Sustainable Hospital Preparedness Training: A Three Phased Approach. Presented at Pan-Asian Disaster Conference, November 2006.

Role of the emergency medical services (EMS) system as part of public health emergency response. Presented at Pan-Asian Disaster Conference, November 2006.

Hospital Workers: Who are essential personnel during a disaster? Presented at Pan-Asian Disaster Conference, November 2006.

Role of emergency medical services (EMS) agencies during a hospital evacuation or need for mass patient transfer. Presented at Pan-Asian Disaster Conference, November 2006.

National Assessment of Knowledge, Attitudes, and Confidence of Prehospital Providers in Assessment and Management of Child Maltreatment. Presented at the Ambulatory Pediatric Association, May 2006

Eyewitness to Child Abuse and Neglect: A National Assessment of EMS Providers Education in Child Abuse and Neglect. Presented at the Society of Academic Emergency Medicine, May 2002.

D. Markenson, MD, CV, Continued

Eyewitness to Child Abuse and Neglect: A National Assessment of EMS Providers Self-Efficacy Regarding Recognition and Reporting of Child Abuse and Neglect. Presented at the Ambulatory Pediatric Association, May 2002.

Eyewitness to Child Abuse and Neglect: A National Assessment of EMS Providers Knowledge of Child Abuse and Neglect. Presented at the Ambulatory Pediatric Association, May 2002.

Eyewitness to Child Abuse and Neglect: A National Assessment of EMS Providers Knowledge of Child Abuse and Neglect. Presented at the EMSC National Congress, April 2002.

Eyewitness to Child Abuse and Neglect. Presented at the National Association of EMS Physicians, January 2002.

Double Blind Comparison of Epinephrine versus Albuterol for Respiratory Distress Secondary to Bronchiolitis. Presented at the Society for Critical Care Medicine, San Francisco, February 2001.
Accuracy of Pediatric Assessment by EMT-Basics. Markenson, D., Foltin G., Tunik M., Welborn C., Treiber M. and Cooper A. Presented at the Ambulatory Pediatric Association Annual Meeting, San Diego, California, May 11, 1995.

Legislative Testimony:

Invited Testimony, Joint New York State Assembly Standing Committee on Governmental Operations, March 2004

Testified on EMS preparedness, funding, education and equipment to Emergency First Responders Hearing

D. Markenson, MD, CV, Continued

Educational Activities

Medical Student Teaching

2013-2015	Preceptor and Lecturer: Pediatric Emergency Medicine 2-4 hours per week
2008-2010	Course Director: Epidemiology and Biostatistics 2 week course per year
2005-present	Course Director: Pediatric Emergency Medicine and Disaster Medicine Summer Fellowship Program 4-8 hr/wk for 8 weeks per year.
2005-present	Preceptor and Lecturer: Pediatric Rotation Maria Fareri Children's Hospital 2-6 hrs/wk for 1 year
2005-2006	Preceptor and Lecturer: Pediatric Rotation Flushing Hospital 2-6 hrs/wk for 1 year
2001-2003	Preceptor: Pediatric Critical Care Elective Harlem Hospital 4 hrs/wk for 2 years
1998	Awarded Fellow Teaching Award, Department of Pediatrics'
1997-2001	Preceptor and lecturer: Pediatric Rotation NYU/Bellevue 2-6 hrs/wk for 4 years

Curriculum Development

2008-2010	<u>Epidemiology and Biostatistics</u> Began redesign and pilot testing of the first year medical student course, Epidemiology and Biostatistics Course.
2003-2005	<u>Disaster Medicine</u> Developed and implemented a disaster medicine curriculum for medical students which were integrated across all four years of medical school.
1998-2000	<u>Emergency Medicine</u> Developed Emergency Medicine Skills Course for Students
1991-1994	<u>Pre-Hospital Emergency Medicine Course for Medical Students</u> <i>Designed and instructed the first pilot program at Albert Einstein College of Medicine of this course, which is a ten week program designed to teach second, third and fourth year medical students how to perform patient assessment and initial management utilizing resources available outside of a hospital.</i>

Administration

2010-2013	Member, First Year Student Promotions Committee
2005-2010	Member, Medical Student Education Committee First and Second Years Subcommittee
2001-2003	Member, Pediatric Medical Student Education Committee
2001-2004	Member, Pediatric Education Committee

D. Markenson, MD, CV, Continued

Residents

Teaching

2013-2018	Internal Medicine, Family Medicine and Surgery Non-Core Faculty and Lecturer 1-2 hrs/wk
2005-2010	Pediatric Emergency Medicine Rotation Director 10 hrs/wk (rounds/lectures/instruction of procedures) for 10 months per year for 1 year
2005-2006	Pediatric Ward Attending 10 hrs/wk (rounds/lectures) for 2 months per year for 2 years
2005-2006	Pediatric Critical Care Rotation Director 10 hrs/wk (rounds/lectures/instruction of procedures) for 10 months per year for 2 years
2003-2004	Fellow: Pediatric Critical Care Rotation 10 hrs/wk (rounds/lectures/instruction of procedures) for 4 months per year for 1 ½ years
2001-2003	Pediatric Ward Attending 10 hrs/wk (rounds/lectures) for 2 months per year for 2 years
2001-2003	Pediatric Critical Care Attending 10 hrs/wk (rounds/lectures/instruction of procedures) for 10 months per year for 2 years
2002	Awarded Faculty of the Year for Teaching, Harlem Hospital Department of Pediatrics
1997-2000	Chief Resident and Fellow: Pediatric Rotation and Pediatric Emergency 10-20 hrs/wk for 1 year as Chief Resident 2-6 hrs/wk for 2 years as fellow

Curriculum Development

2013-2018	<u>Internal Medicine, General Surgery, Family Medicine, Psychiatry, Neurology and Emergency Medicine</u> In partnership with Program Directors developed curriculum, didactic plan, evaluation instruments and program application for new residency programs.
2005-2010	<u>Pediatric Emergency Medicine Resident Rotation</u> Revised required Pediatric Emergency Medicine Rotation and developed new curriculum and objectives
2005-2006	<u>Pediatric Critical Care Resident Rotation</u> Developed new required Pediatric Critical Care Rotation
2005-2006	<u>Pediatric Transport and Research Resident Rotation</u> Developed new required Pediatric Transport and Research Rotation
2001-2002	<u>Pediatric Critical Care Education</u> Developed Pediatric Critical Care Education Program for Residents
1997-1998	<u>Advanced Pediatric Life Support</u> Developed Advanced Pediatric Life Support Program for Residents

D. Markenson, MD, CV, Continued

Administration

2015-present	Chair Graduate Medical Education Committee, HealthONE, Research Medical Center, Ogden Regional Medical Center and Eastern Idaho Regional Medical Center
2005-present	Member, Resident Education Committee, Maria Fareri Children's Hospital
2001-2002	Member, Resident Education Committee, Harlem Hospital Center
1997-1998	Member, Resident Education Committee, New York University School of Medicine

Public Health

Teaching

2008-2010	Advanced Epidemiology, Course Leader 3-4 hrs/wk
2006-2013	Introduction to Health Policy and Management, Lecturer 1-2 hrs/wk

Curriculum Development:

2009 to 2010	<u>Epidemiology Doctoral Program</u> <i>Lead process to revise doctoral curriculum including curriculum design of two new courses.</i>
2009 to 2010	<u>Epidemiology Masters Program</u> <i>Lead process to revise master curriculum including creating new terminal activities, developing curriculum for courses in applied epidemiology and improving evaluation metrics and processes.</i>
2009 to 2010	<u>Disaster Medicine Certificate Program</u> <i>Developed certificate program, course curriculum and terminal objectives for new certificate in Disaster Medicine and Public Health Emergencies</i>
2004 to 2005	<u>Disaster Medicine Certificate Program</u> <i>Developed certificate program, course curriculum and terminal objectives for new certificate in Disaster Medicine</i>

Administration

2008-2010	Member, Curriculum Committee, New York Medical College School of Health Science and Practice
2006-2012	Member, Academic Policy Committee, New York Medical College School of Health Science and Practice
2006-2013	Member, Research Committee, New York Medical College School of Health Sciences and Practice

Continuing Medical Education

Curriculum Development:

2010 to 2013	<u>Basic Disaster Life Support</u>
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D. Markenson, MD, CV, Continued

	<i>Participated as Deputy Editor in development of revision national continuing medical education course Conducted by the American Medical Association</i>
2006	<u>Pediatric Critical Care Transport Course</u> <i>Developed extensive CME course for Paramedics and RN to function as members of a pediatrics critical care transport course.</i>
2005 to 2007	<u>Fundamental Disaster Medicine</u> <i>Participated in initial development of new national continuing medical education Course and subsequent course revisions Conducted by the Society of Critical Care Medicine</i>
2005	<u>Emergency Preparedness Academy</u> <i>Developed one day academy to educate healthcare providers, business leaders, school officials and emergency mangers about current emergency management concepts and networking between these fields.</i>
2004	<u>Pediatric Emergency Preparedness On-Line Module</u> <i>Developed pediatric module for on-line emergency preparedness course offered by Columbia University as part of HRSA funded healthcare provider education program.</i>
2003-2005	<u>On-Line Incident Management Course</u> <i>Developed as a Center for Public Health Preparedness project, an on-line module to teach public health workers incident management.</i>
2002-2003	<u>Pediatric Emergency Preparedness Course</u> <i>Developed a course on unique pediatric aspects of emergency preparedness for physicians, nurses and allied health providers</i>
2001-2004	<u>Prehospital Pediatric Care Course</u> <i>Developed a national continuing medical education course on prehospital pediatric care for the National Association of EMTs based on my textbook on the same subject.</i>
1996-2000	<u>Prehospital Provider Assessment, Treatment and Reporting of Child Maltreatment Course</u> <i>Develop a course for Prehospital providers in the assessment, treatment and reporting of child maltreatment. Initial pilot courses developed and delivered in NYC. Course then updated based on results of National Child Protection Project. Subsequently train-the-trainer model implemented to allow national delivery of this program.</i>
1994-1996	<u>Certified First Responder Pediatric Assessment and Treatment Session</u> <i>Developed, authored and Co-Edited the pediatric section for the New York State Department of Health Certified First Responder Course</i>
1998-present	<u>Emergency Medical Technician Continuing Medical Education Program</u> <i>Developed and taught a monthly continuing medical education to several urban volunteer ambulance service</i>
1987-1990	<u>Paramedic Continuing Medical Education Program</u> <i>Provided continuing medical education to paramedics in the Schenectady County area from September, 1987 to, June 1990 using a format which was didactic, practical skill review or call review.</i>

D. Markenson, MD, CV, Continued

1989-1990	<u>Advanced Life Support Assistance</u> <i>This course was designed to allow Emergency Medical Technicians to assist Advanced Emergency Medical Technicians in the performance of Advanced Life Support. This sixteen hour course included didactic, practical skills and testing sessions. Students were instructed in the assembly, inspection and maintenance of equipment necessary for intravenous therapy, medication administration, cardiac monitoring, defibrillation/cardioversion and intubation.</i>
1989-present	<u>Advanced Life Support for the Basic Emergency Technician</u> <i>This course was designed to allow Emergency Medical Technicians to administer albuterol for bronchospasm, nitroglycerin for ischemic chest pain and epinephrine for anaphylaxis. This twelve hour course included didactic, practical skills and testing sessions. Both a student and instructor text was written for this program. Students in this training program are part of a study to determine the ability of Basic Emergency Medical Technicians to administer advanced life support interventions. After adoption by New York State program, I revised this program in 2000.</i>

Grand Rounds:

Orange Regional Medical Center, November 2011
Pediatric Trauma

UCLA Children's Hospital, August 2010
Pediatric Preparedness for Disasters, Terrorism and Public Health Emergencies

Maria Fareri Children's Hospital, September 2009
H1N1 and Pandemic Influenza Overview

Norwalk Hospital, September 2009
H1N1 and Pandemic Influenza Overview

Maria Fareri Children's Hospital, September 2007
Evidenced Based Resuscitation and First Guidelines

Northern Westchester Hospital, March 2007
Pediatric Disaster Considerations

Phelps Hospital, January 2006
Pediatric Disaster Considerations

Maria Fareri Children's Hospital, September 2005
Pediatric Disaster Considerations

Methodist Hospital, May 2005
Pediatric Disaster Considerations

Flushing Hospital Medical Center, March 2005
Pediatric Disaster Preparedness

Long Island College Hospital, January 2005
Pediatric Disaster Medicine

Beth Israel Medical Center, October 2004

D. Markenson, MD, CV, Continued

Pediatric Disaster Medicine

Israel Ministry of Health and Home Front Command, October 2003
Pediatric Disaster Medicine

Oklahoma Medical Center, December 2002
Pediatric Disaster Medicine

Harlem Hospital Center, February 2001
Conscious Sedation

New York Hospital Queens, December 2000
Seizure and Status Epilepticus, A Pediatric Perspective

Invited Presentations:

Speaker, International First Aid Education Conference
Canadian Red Cross, April 2018
Future of First Aid Education

Speaker, International First Aid Education Conference
Canadian Red Cross, April 2016
Evidence Based Education

Speaker, Emergency Preparedness Conference
Joint Commission Resources, April 2012
Alternate Care Site Planning

Speaker, Trauma Symposium
Good Samaritan Hospital, November 2011
Presented session on Pediatric Trauma

Speaker, Canadian Association of Emergency Physicians 2011 Annual
Conference
Canadian Association of Emergency Physicians, June 2011
Presented session on ACLS 2010- Update and Controversies

Workgroup Leader, Pediatric Disaster Preparedness Curriculum Development
Conference
National Center for Disaster Medicine and Public Health, March 2011
Presented session on Pediatric Preparedness Curriculum for Prehospital
Providers

Speaker, Second European First Aid Manual Development Meeting
Belgium and German Red Cross, February 2011
Presented session on Evidence Based First Aid Guidelines

Speaker, European First Aid Manual Development Meeting
Belgium Red Cross, January 2011
Presented session on Evidence Based First Aid Guidelines

Speaker, Disaster Symposium
UCLA Health System, November 2010
Presented session on Special Population Management in Disasters: Pediatrics

D. Markenson, MD, CV, Continued

Speaker, Experiences from the Front Line: H1N1 Conference
Medical Society of the State of New York, May 2010
Presented session on Novel Influenza A (H1N1): Pandemic Pediatric Implications

Roundtable Presenter, Public Health Preparedness Summit 2009
Presented session on Pediatric Preparedness Guidelines

Workshop Leader and Presenter, Public Health Preparedness Summit 2009
Lead workshop and presented on Alternative Care Site as Post-Conference Workshop

Speaker, FEMA Urban Hazards Forum V: Conference on Emergency Preparedness for Special Needs Populations, August 2008
Presented session on All Inclusive Emergency Preparedness: Pediatric Improvements and Challenges Which Remain

Speaker and Panel Member, Pediatric Reunification Meeting
Los Angeles Children's Hospital, June 2008
Presented sessions on Pediatric Disaster Reunification

Faculty, Workshop Consensus Recommendations on Pediatrics and Special Populations During Disasters and Public Health Emergencies
Pediatric Academic Societies, 2007.

Faculty, Harvard Pediatric Post Graduate CME Course
Harvard Department of Pediatrics, December 2007
Presented sessions on Pediatric Disaster preparedness and Pediatric Assessment

Speaker, Homeland Security_WMD Affiliate Faculty Training
Presented sessions on pediatric anatomy, physiology, development and emergency preparedness, June 2007

Speaker Michigan Preparedness Conference
Michigan Department of Public Safety, May 2007
Presented session on unique aspects of pediatric disaster and terrorism preparedness

Speaker National Allergy and Asthma Network
Case Western Reserve Medical Center, May 2007
Presented session on unique aspects of pediatric emergency preparedness for children with chronic illness

Speaker Case Western Regional Disaster Conference
Case Western Reserve Medical Center, April 2007
Presented session on unique aspects of pediatric disaster and terrorism preparedness

Workshop Leader Public Health Preparedness Summit
National Association of County and City Health Officials, February 2007
Conducted workshop on unique aspects of disaster, public health and terrorism preparedness for special populations including children and persons with disabilities

Faculty Pediatric Critical Care Current Concepts Course

D. Markenson, MD, CV, Continued

Society of Critical Care Medicine Annual Meeting, February 2007
Presented session on unique aspects of pediatric disaster and terrorism preparedness

Speaker Internal Conference on Disaster Medicine,
February 2007
Presented session on unique aspects of pediatric disaster and terrorism preparedness

Speaker Morristown Medical Center Pediatric Emergency Medicine Update
Morristown Medical Center, May 2005
Presented session on unique aspects of pediatric disaster and terrorism preparedness

Faculty Fundamental Disaster Medicine course, January 2005
Faculty for Society of Critical Care Medicine Annual Meeting CME Course on Disaster Preparedness.

Course Director and Presenter Westchester Emergency Preparedness Academy
Westchester American Red Cross, December 2004
Directed and presented at 1 day CME academy on emergency preparedness

Presenter, Preparedness Conference
Michigan Office of Public Health Preparedness Conference, December 2004
Presented sessions on Pediatric Disaster Medicine

Presenter Native American EMS Conference, November 2004
Presented sessions on Pediatric Disaster Medicine and Child Maltreatment

Presenter EMS Expo, October 2004
Lectured on Pediatric Disaster Medicine and Child Protection

Presenter Heartland EMSC Conference, September 2004
Faculty for conference and presented on topic of the needs of children in disasters

Speaker WMD Affiliate Faculty Training
Presented sessions on pediatric anatomy, physiology, development and emergency preparedness

Presenter AHRQ Surge Capacity Web Cast July 2004
Presented sessions on Pediatric Disaster and Terrorism Surge Capacity Considerations

Presenter EMS for Children Annual Conference June 2004
Presented sessions on Pediatric Disaster and Terrorism Preparedness for EMS

Presenter Westchester Medical Center Preparedness Conference June 2004
Presented sessions on Pediatric Disaster and Terrorism Preparedness for EMS

Presenter HRSA Bioterrorism Curriculum Development Conference May 2004
Presented sessions on Pediatric Terrorism Preparedness Education

Presenter AHRQ Workshop for State Officials on BT and Other Preparedness Tools, May 2004

D. Markenson, MD, CV, Continued

Presented sessions on Pediatric Disaster Medicine, Pediatric Terrorism Preparedness and Hospital Preparedness

**Presenter Pediatric Academic Societies, April 2004
Presented sessions on Pediatric Disaster Medicine and Hospital Preparedness**

**Presenter Greater New York Hospital Association, January 2004
Presented sessions on Pediatric Disaster Medicine and Hospital Preparedness**

**Presenter New England Regional EMSC Conference, November 2003
Presented sessions on Pediatric Disaster Medicine and Child Maltreatment**

**Presenter Native American EMS Conference, November 2003
Presented sessions on Pediatric Disaster Medicine and Child Maltreatment**

**Presenter National Association of EMTs Conference, September 2003
Presented sessions on Pediatric Disaster Medicine and Critical Care**

**Presenter Illinois Bioterrorism Summit, June 2003
Presented session on Pediatric Disaster and Terrorism Preparedness**

**Speaker Pacific Region EMSC Conference, June 2003
Presented session on Pediatric Disaster Preparedness**

**Presenter CARE Conference, January 2003
Presented session on Pediatric Disaster Medicine**

**Presenter AED and Schools a National Forum, January 2003
Presented session on Pediatric Defibrillation**

**Presenter NYS Vital Signs EMS Conference, November 2002
Faculty for Preconference Pediatric Colloquium and conference session in Mandate Reporting**

**Presenter Southeastern Regional EMSC Conference, September 2002
Faculty for conference and presented on topic of the needs of children in disasters**

**Presenter Emergency Cardiac Care Update, September 2000
Presented session on Pediatric Defibrillation the NYC and London Experience**

**Presenter Red River/South Central Regional EMSC Conference, August 2002
Faculty for conference and presented on topic of the needs of children in disasters**

**Presenter EMSC National Congress, April 2002
*Presented lead lecture during special session on Pediatric Cardiac Arrest Defibrillation***

**Presenter NAEMSP 2002 Annual Meeting, January 2002
*Presented lead lecture during special session on Pediatric Defibrillation***

**Faculty NAEMT 2001 Annual Meeting, October 2001
*Faculty for Pre-Conference Pediatric Prehospital Care Course National Roll-Out***

Faculty National Association of EMS Educators Meeting, September 2001

D. Markenson, MD, CV, Continued

Presented lecture on Children with Special Health Care Needs

Faculty National Resource Center Child Neglect Meeting, July 2001

Presented research on child maltreatment knowledge and attitudes of EMS providers

Presenter Emergency Medical Services for Children Grants Meeting, June, 2001

Presented summary of design and objectives of an on-going EMS for Children grant to study EMS providers knowledge and attitude towards child maltreatment

Faculty NAEMT 2000 Annual Meeting, October 2000

Faculty for Pre-Conference Pediatric Prehospital Care Course

Faculty EMSC National Congress, March 2000

Faculty for Panel of EMSC Protocols Development and Implementation and Presenter for session on the State of the Art in Asthma Treatment

Faculty NAEMSP 2000 Annual Meeting, January 2000

Faculty and Moderator for Pediatric Track and Faculty for Post-conference Workshop on Development Workshop to Create a Teaching Resource for Instructors in Prehospital Pediatrics for Paramedics

Faculty NAEMT 1999 Annual Meeting, October 1999

Faculty for Conference Workshop on a Teaching Resource for Instructors in Prehospital Pediatrics for Paramedics

Faculty NAEMSP 1999 Annual Meeting, January 1999

Faculty for Post-conference Workshop on Development Workshop to Create a Teaching Resource for Instructors in Prehospital Pediatrics for Paramedics

Faculty Virginia EMS Symposium, November 1998

Lead Faculty for Update on Prehospital Pediatrics Workshop

Faculty Regional EMS Council of New York City Instructor Update, June, 1998

Course Faculty

Faculty Vital Signs 97: NYS Annual EMS Conference, November, 1997

Course Faculty for Pre-Conference Workshop

Faculty National Association of EMS Educators Annual Education Symposium, September, 1997

Participated in Workshop – Rollout of the Teaching Resource for Instructor in Prehospital Pediatrics

Faculty Louisiana Association of Nationally Registered EMTs Annual Conference, June, 1997

Conducted lecture on EMS – Children, The Program: EMS Services as they Relate to pediatric Emergency Services

Faculty National Association of EMS Physicians Conference, January, 1996

Conducted workshop on Pediatric EMS Education for Medical Directors and EMS Educators

Faculty NYS Department of Health Vital Signs Conference, November, 1995

Conducted workshop on Pediatric EMS Education for NYS EMT's, Paramedics and Instructors

D. Markenson, MD, CV, Continued

Faculty Connecticut Department of Health EMS Conference, March 1995
Lectured on Pediatric Assessment and Respiratory Emergencies to EMT's and Paramedics

Presenter Emergency Medical Services for Children Projects Meeting, February, 1995
Presented summary of design and objectives of an on-going EMS for Children grant to develop an Instructor's Resource for Teaching Prehospital Pediatrics

Presenter Food and Drug Administration and National Institute of Health Public Forum on Informed Consent in Clinical Research Conducted in Emergency Circumstances, January, 1995
Presented oral and written testimony on the impact of the current FDA and NIH regulations on Pediatric and Prehospital emergency medicine research

Course Leader American Red Cross Eastern Territory HIV/AIDS I.T. Workshop, January, 1990
Designed and conducted initial training of Instructor Trainers for the Eastern Territory of the American Red Cross in the Centers for Disease Control and American Red Cross HIV/AIDS Education Program.

Lead Lecturer American Red Cross Eastern Territory Water Safety Retraining, December, 1989
Organized and lectured on changes in course delivery due to changes in educational materials used in American Red Cross Water Safety Courses

Guest Lecturer Schenectady American Red Cross Aquatics Facility Manager Workshop, June, 1989
Lectured on establishing an emergency action plan and interacting with the local EMS system.

Lead Lecturer American Red Cross Eastern Territory Standard First Aid Regional Retraining, June, 1989
Organized and lectured on changes in course delivery due to changes in educational materials used in American Red Cross First Aid Courses.

Lead Lecturer American Red Cross Eastern Territory CPR Regional Retraining, June, 1988
Organized and lectured on changes in course delivery due to 1985 ECC standards and changes in educational materials used in American Red Cross CPR Courses.

D. Markenson, MD, CV, Continued

Other Administrative Responsibilities

State and Regional Committee Membership:

American College of Emergency Physicians

New York Chapter Key Contacts - Member 1993 to 2001

EMS Committee - Member 1994 to 2003

American Academy of Pediatrics

District II Committee on Emergency Medical Services for Children - Member 1993 to 2000

American Red Cross

American Red Cross Mile High Chapter – Member, Board of Directors 2014 - present

American Red Cross of Westchester County – Member, Board of Directors 2004 to 2008

American Red Cross of Greater N.Y. Bronx Safety and Health Committee Chairman 1991 to 1992

American Heart Association

New York City Affiliate Pediatric Advanced Life Support Subcommittee - Member 1994 to 2001

New York City Affiliate Pediatric Advanced Life Support Regional Faculty - 1994 to 2001

Arapahoe Douglass Ebert Medical Society

Board Member 2013 to present

President 2015 to present

President-Elect 2014

Colorado Medical Society

Nominated for President-Elect

Treasurer 2017 – present

Board Member 2016 - present

Medical Society of the State of New York

Committee on Emergency Medical Services - Member 1996 to 2000

Committee on Child Abuse and Domestic Violence - Member 1997 - 2000

Regional Emergency Medical Services Council

Regional Emergency Medical Services Council - Alternate Member Fall 1994 to 1996

Education and Training Sub - Committee - Member 1995 to 1999

Regional Emergency Medical Advisory Council

Regional Emergency Medical Advisory Council - Alternate Member Fall 1994 to 2000

Advanced Life Support Testing and Training Subcommittee - Member 1993 to 2000

Basic Life Support Sub - Committee - Member 1993 to 2000

Basic Life Support Quality Assurance/Quality Improvement Subcommittee – Member 1993 to 2000

Basic Life Support Research and Development Subcommittee - Vice-Chair 1993 to 2000

Schenectady Emergency Medical Services Council Committees:

Emergency Medical Services Council - Member 1988 to 1990

Schenectady County Fire Coordinator's Office

Emergency Medical Services Liaison 1988 to 1990

EMS Experience:

Board of Directors Center for Pediatric Emergency Medicine, New York, N.Y.

Helped to found and currently direct center for pediatric emergency medicine research, injury prevention, education and EMS for Children

D. Markenson, MD, CV, Continued

Associate Director and Educational Coordinator New York City EMS for Children Project, New York, N.Y.
Worked on project, which provides training and medical oversight of EMS for Children in New York City.

Medical Director North Salem Volunteer Ambulance Service
Served as medical director for ALS volunteer ambulance service

Coordinator of Training Upper East Side Attala Volunteer Ambulance Service, New York, N.Y.
Planned and conducted all training activities and responded to emergencies as a paramedic.

Director and Paramedic Union College Emergency Medical Service, Schenectady, New York
Founded and served as first director of college ambulance service.